SPRINKLER GENERAL NOTES

1. FIRE SPRINKLES LOCATED IN THE ELEVATOR SHAFT PIT SHALL BE A SIDEWALL SPRINKLER LOCATED NOT MORE THAN 24" ABOVE THE PIT FLOOR.
2. FIRE SPRINKLERS INSTALLED IN THE ELEVATOR MACHINE ROOMS AND TOP OF SHAFTS SHALL BE ORDINARY OR INTERMEDIATE TEMPERATURE RATINGS.
3. ALL SPRINKLERS INSTALLED IN THE ELEVATOR SHAFTS AND MACHINE ROOMS SHALL BE STANDARD RESPONSE. QUICK RESPONSE SPRINKLERS ARE NOT PERMITTED.
4. ANY SPRINKLER REMOVED FOR ANY REASON SHALL NOT BE REINSTALLED. A NEW SPRINKLER SHALL BE INSTALLED.
5. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE SPRINKLER SYSTEMS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
6. ALL CEILINGS, WALLS, FLOORS AND FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND PAINTED TO MATCH EXISTING CONDITIONS AND FIRE RATING.
7. SPRINKLER CONTRACTOR SHALL COORDINATE THE DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM IN THE ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT WITH THE AUTHORITY HAVING JURISDICTION.
8. THE SPRINKLER SYSTEM SHALL REMAIN IN SERVICE AS LONG AS POSSIBLE DURING DEMOLITION ON THE FLOOR. WHEN THE SYSTEM IS TAKEN OUT OF SERVICE, THE OCCUPIED PORTION OF THE FLOOR SHALL REMAIN IN SERVICE. THE UNOCCUPIED PORTIONS SHALL HAVE A FIRE WATCH WHENEVER THE BUILDING IS OCCUPIED. THE FIRE WATCH INSTRUCTIONS CAN BE OBTAINED FROM THE UNIVERSITY FIRE MARSHAL.

MECHANICAL GENERAL NOTES

1. THE MECHANICAL AND PLUMBING CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE SCOPE AND THE GENERAL ARRANGEMENT OF THE SYSTEMS. WHERE APPLICABLE THE FOLLOWING NOTES SHALL APPLY TO ALL MECHANICAL (HVAC, PLUMBING, AND PIPING) SYSTEMS.
2. THOUGH SOME DUCTWORK AND PIPING OFFSETS AND TRANSITIONS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS AND TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
3. PROVIDE APPROVED FIRE STOPPING MATERIAL AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FLOORS AND FIRE RATED WALLS AND FIRE/SMOKE DAMPERS AT ALL PENETRATIONS THROUGH SHAFT ENCLOSURES.
4. SUPPORT ALL EQUIPMENT FROM STRUCTURE WITH SPECIFIED VIBRATION ISOLATION.
5. PROVIDE ACCESS PANELS WHERE REQUIRED FOR ADEQUATE ACCESS TO ALL CONCEALED EQUIPMENT, VALVES, DAMPERS AND CONTROLS.
6. ALL DUCT SIZES REFER TO INTERNAL FREE AREA. REFER TO DRAWINGS AND SPECIFICATIONS FOR INTERNAL INSULATION AND SOUND LINING PRIOR TO FABRICATION.
7. ALL DUCTWORK SHALL BE CONSTRUCTED OF RIGID SHEET METAL UNLESS OTHERWISE NOTED.
8. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
9. INSTALL DUCTWORK AND PIPING MAINS TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
10. REFER TO MECHANICAL DETAILS FOR TYPICAL EQUIPMENT CONNECTIONS.
11. PATCH AND SEAL ALL REMAINING OPENINGS THROUGH FLOORS, WALLS, AND ROOF RESULTING FROM DEMOLITION OR NEW WORK WITH MATERIALS AND FINISHES TO MATCH EXISTING CONSTRUCTION AND FIRE RATING.
12. AS AN INTEGRAL PART OF THESE DOCUMENTS, THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO THE BEGINNING OF ANY WORK. FAILURE TO VISIT THE SITE SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY.
14. CONTRACTOR SHALL USE CARE WHEN PERFORMING SELECTIVE DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO BUILDING FINISHES, EQUIPMENT, FURNITURE, STRUCTURE, AND MECHANICAL/ELECTRICAL SYSTEMS AND EQUIPMENT. SHOULD ANY DAMAGE OCCUR THE CONTRACTOR SHALL RESTORE DAMAGED AREA/ITEMS TO ORIGINAL CONDITION TO MEET THE OWNER'S SATISFACTION.
15. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER ANY UTILITY OUTAGES. OWNER SHALL BE GIVEN A MINIMUM OF 72 HOURS NOTICE (THREE WORKING DAYS) FOR ANY OUTAGES.
16. HVAC SHALL BE MAINTAINED TO ALL AREAS OUTSIDE OF THE CURRENT PHASE OF THE RENOVATED AREA AT ALL TIMES. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO COORDINATE OUTAGES WITH THE OWNER A MINIMUM OF 72 HOURS (THREE WORKING DAYS) IN ADVANCE.
17. DEMOLITION AND NEW WORK THAT WILL RESULT IN DOWN TIME OF SERVICES (HVAC, PLUMBING, PIPING, ETC.) SHALL BE PERFORMED AT PREMIUM TIME AS REQUIRED TO MINIMIZE DOWN TIME TO ADJACENT SPACES. COORDINATE ALL OUTAGES WITH OWNER.
18. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION. ALL WORK AND ASSOCIATED OUTAGES SHALL BE COORDINATED WITH THE PHASING SCHEDULE AND THE OWNER.
19. SCHEDULE ALL WORK IN OCCUPIED SPACES WITH OWNER AND CURRENT TENANT AT LEAST TWO (2) WEEKS PRIOR TO CONSTRUCTION.
20. RETURN TO OWNER, AT THEIR DISCRETION, ALL UNUSED MECHANICAL EQUIPMENT (I.E. AIR DEVICES, THERMOSTATS AND CONTROLS).
21. CONTRACTOR SHALL DRAIN AND FILL EXISTING HYDRONIC SYSTEMS AS REQUIRED. CONTRACTOR SHALL PROVIDE ADEQUATE SHUT-OFF CAPABILITIES AS REQUIRED AND COORDINATE ALL ACTIVITIES WITH THE OWNER AT LEAST 72 HOURS IN ADVANCE.

MECHANICAL LEGEND

CHECK VALVE	BALANCING DAMPER
BALL VALVE	FIRE/SMOKE DAMPER
GATE VALVE	THERMOSTAT
BACKWATER VALVE	LIMIT OF DEMOLITION
UNION	CONNECT TO EXISTING
PIPING CAP	
PIPING ELBOW DOWN	
PIPING ELBOW UP	
PIPE CONNECTION BOTTOM	
PIPE CONNECTION TOP	
CLEANOUT	
SUPPLY AIR DUCT UP (DASHED LINES FOR DOWN)	
RETURN & EXHAUST AIR DUCT UP (DASHED LINES FOR DOWN)	
DOUBLE THICKNESS TURNING VANES	
EXISTING DUCTWORK	
DUCTWORK TO BE REMOVED	
OPEN ENDED DUCT	
NEW DUCTWORK	
DUCT TRANSITION ROUND TO RECTANGULAR	
DUCT TRANSITION	
DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)	

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
AIR PRESSURE DROP	APD
BACKWATER VALVE	BWV
DRY BULB	DB
ENTERING AIR TEMPERATURE	EAT
EXISTING TO REMAIN	ETR
EXTERNAL STATIC PRESSURE	ESP
HORSEPOWER	HP
LEAVING AIR TEMPERATURE	LAT
NORMALLY CLOSED	NC
NORMALLY OPENED	NO
NOT IN CONTRACT	NIC
OPEN ENDED DUCT	OED
REMOVE EXISTING	RX
RETURN AIR	RA
SUPPLY AIR	SA
TOTAL STATIC PRESSURE	TSP
WATER PRESSURE DROP	WPD
WET BULB	WB
UNLESS OTHERWISE NOTED	UON

PLUMBING PUMP SCHEDULE

DESIG.	SERVICE	LOCATION	GPM	HEAD (FT.)	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	RPM	CONTROL	MANUFACTURER / MODEL	TYPE
SP-1	ELEVATOR P1 SUMP	ELEVATOR PIT	74	37	1/2	120	1	3600	AUTOMATIC FLOAT SWITCH	STANCOR / SE50A	SUBMERSIBLE
SP-2	ELEVATOR P2 SUMP	ELEVATOR PIT	74	37	1/2	120	1	3600	AUTOMATIC FLOAT SWITCH	STANCOR / SE50A	SUBMERSIBLE
SP-3	ELEVATOR F1 SUMP	ELEVATOR PIT	74	37	1/2	120	1	3600	AUTOMATIC FLOAT SWITCH	STANCOR / SE50A	SUBMERSIBLE

REMARKS:

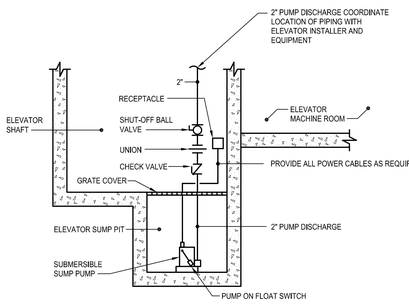
1. PROVIDE COMPLETE WITH FLOAT SWITCH.
2. PROVIDE WITH 20'-0" POWER CORD.

ELEVATOR MACHINE ROOM AIR CONDITIONER SCHEDULE

AREA SERVED	DESIGNATION INDOOR UNIT	DESIGNATION OUTDOOR UNIT	CFM (1)	MIN SEER	COOLING TOTAL MBH	COOLING SENS. MBH	ELECTRICAL CHARACTERISTICS INDOOR MIN. AMPACITY	INDOOR VOLTS/Ø	INDOOR MOCP	OUTDOOR MIN. AMPACITY	OUTDOOR VOLTS/Ø	OUTDOOR MOCP	MANUFACTURER / MODEL	REMARKS
ELEV P1 MACH RM	AC-2	CU-2	706	19.3	30	19.9	1	208/1	15	19.5	208/1	20	DAIKIN / FTXS30LVJU DAIKIN / RKS30LVJU	2,3,4,5,6,7,8,9
ELEV P2 MACH RM	AC-3	CU-3	500	18.6	18	13.7	1	208/1	15	16.5	208/1	20	DAIKIN / FAQ18PVJU DAIKIN / RZR18PVJU	2,3,4,5,6,7,8
ELEV F1 MACH RM	AC-4	CU-4	635	17.6	24	18.0	1	208/1	15	16.5	208/1	20	DAIKIN / FAQ24PVJU DAIKIN / RZR24PVJU	2,3,4,5,6,7,8

REMARKS:

1. AIRFLOW BASED ON WET COIL, HIGH SPEED FAN.
2. PROVIDE FILTERS.
3. PROVIDE CONDENSATE PUMP.
4. PROVIDE WALL MOUNTED THERMOSTAT.
5. INDOOR UNIT SHALL BE WALL MOUNTED.
6. PROVIDE LOW AMBIENT OPERATION DOWN TO 0 DEGREES F.
7. PROVIDE ANTI-SHORT CYCLE TIMER.
8. SIZE AND ROUTE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. TOTAL LENGTH OF REFRIGERANT PIPING SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
9. OUTDOOR UNIT PROVIDES POWER FOR CORRESPONDING INDOOR UNIT (AC-2/CU-2 ONLY).
10. PROVIDE WITH INTEGRAL DISCONNECT.



1 / M001 **ELEVATOR SUMP PUMP DETAIL**

NO SCALE

NOTES:
1. REFER TO FLOOR PLANS FOR EXACT LOCATION.
2. REFER TO SCHEDULES FOR CAPACITIES.
3. COORDINATE ALL PIPING, VALVES, RECEPTACLES, AND ALL ASSOCIATED APPURTENANCES WITH A ELEVATOR INSTALLER AND EQUIPMENT.
4. PUMP AND ACCESSORIES SHALL BE AS MANUFACTURED BY STANCOR, OR EQUIVALENT AND SHALL COMPLY WITH 2000 ASME A-17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

BID DOCUMENTS

DELLC JOB NO. 120701D

Revisions | Date

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Drawing Title: MECHANICAL LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES, AND NOTES

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Date: 26, September 2014

Project No.: 542–08–110

Approved: Chief Engineering Services

Approved: Medical Center Director

Building Number: 9 | Checked: MAF | Drawn: ERS

Location: COATESVILLE, PENNSYLVANIA

DRAWING NO. M001

Dwg. – Of xx

DEPARTMENT OF VETERANS AFFAIRS

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